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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/613,932	07/01/2003	Takahiko Tanahashi	Y-218	4638	
	802	7590 10/18/2004		EXAM	INER	
	DELLETT AND WALTERS P. O. BOX 2786 PORTLAND, OR 97208-2786		Γ	DESTA,	DESTA, ELIAS	
				ART UNIT	PAPER NUMBER	
				2857		

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
	10/613,932	TANAHASHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Elias Desta	2857			
The MAILING DATE of this community Period for Reply	inication appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMUI - Extensions of time may be available under the provisio after SIX (6) MONTHS from the mailing date of this cor - If the period for reply specified above is less than thirty If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for rep Any reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no event, however, may a interpretation. (30) days, a reply within the statutory minimum of thir statutory period will apply and will expire SIX (6) MON by will, by statute, cause the application to become Also after the mailing date of this communication, even if	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) f	iled on <i>29 January 2004</i> .				
2a)☐ This action is FINAL .	2b) This action is non-final.				
3) Since this application is in conditio	n for allowance except for formal mat	ters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-5 is/are pending in the	application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-5</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to rest	riction and/or election requirement.	·			
Application Papers					
9)☐ The specification is objected to by	the Examiner.				
• — •	☑ The drawing(s) filed on <u>29 January 2004</u> is/are: a) ☐ accepted or b) ☑ objected to by the Examiner.				
	jection to the drawing(s) be held in abeyar				
Replacement drawing sheet(s) including	ng the correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected	to by the Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 Copies of the certified copie application from the Internal 		Application No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449 		s)/Mail Date Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				

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Detailed Action

Drawing Objection

- 1. The drawing is objected to because the following minor informalities:
 - ➤ Fig. 16 should have subsection, such as "a" and "b" or the second embodiment (the graph shown) should be labeled as Fig. 17.

Claim rejection - 35 U.S.C. 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. <u>Claims 1-5</u> are directed to non-statutory subject matter, because the claims do not recite any form of technology.

The claims are directed to an abstract idea without practical application, and thus the invention does not fall within the definition of technological arts. The abstract idea expressed in the claims does not become a technological art merely by recitation in the claim of "performing", "dividing", and/or "recovering".

The Examiner observes that neither the specification nor the claims discuss the use of any technology with respect to the claimed invention.

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See <u>Diamond v. Diehr</u>, 450 U.S. 175, 185, 209 USPQ 1, 7(1981); <u>In re Warmerdam</u>, 33 F.3d 1354, 1357, 31 USPQ2d 1754, 1756(Fed. Cir. 1994); <u>AT & T Corp. v. Excel Communications Inc.</u>, 172 F.3d 1352, 1355, 50 USPQ2d 1447, 1449-50(Fed. Cir. 1999); and <u>State Street Bank & Trust Co. v. Signature</u> <u>Fin. Group, Inc.</u>, 149 F.3d 1368, 1374-75, 47 USPQ2d 1596, 1602(Fed. Cir. 1998)

Conclusion

- 4. <u>Citation of pertinent prior art:</u>
 - a. <u>Dimas et al.</u> (U.S. Patent 6,512,999) teaches an apparatus and method for simulating turbulence.
 - b. <u>Weiler et al.</u> (IEEE Article, 'Hardware-Software-Balance Resampling for the Interactive Visualization of Unstructured Grids') teaches a method of re-sampling unstructured volume data on Cartesian grids for achieving interactive visualization.
 - c. <u>Kaup</u> (IEEE Article, 'Object-Based Texture Coding of Moving Video in MPEG-4') teaches segment-based coding for MPEG-4 standardization.
 - d. <u>Clark et al.</u> (IEEE Article, 'Stationary, Non Stationary, and Hybrid Interactive Method of Moments Solution Scheme') teaches

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sparse iterative method (SIM) in order to alleviate the problem associated with segment renumbering.

- e. <u>Minyard et al.</u> (IEEE Article, 'Partitioning and Dynamic Load Balancing of Adaptive Hybrid Grids for Large-Scale Turbulent Flow Simulations') teaches three-dimensional prismatic/tetrahedral meshes.
- f. <u>Yee et al</u>. (IEEE Article, 'Conformal Hybrid Finite Difference Time Domain and Finite Volume') teaches a hybrid method that combines finite difference time domain and finite volume time domain.
- g. <u>Wang et al</u>. (AIAA Article, 'A 2^N Tree Based Automated Viscous Cartesian Grid Methodology for Feature Capturing') teaches unstructured grid-based CFD algorithm for automating fluid flow simulation.
- h. <u>Ham et al.</u> (JOCP Article, 'A Cartesian Grid Method with Transient Anisotropic Adaptation') teaches grid generation process and the ease with which local refinement of the grid with recursive cell-splitting operations.
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Thu (8:30-7:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)-272-1750

Elias Desta Examiner Art Unit 2857

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October 6, 2004

